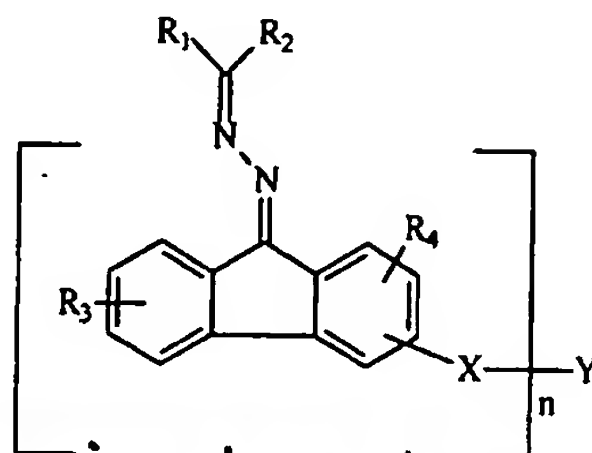


ORGANOPHOTORECEPTOR WITH CHARGE TRANSPORT MATERIAL WITH FLUORENONE AZINE GROUPS

Abstract of the Disclosure

Improved organophotoreceptor comprises an electrically conductive substrate and
5 a photoconductive element on the electrically conductive substrate, the photoconductive element comprising:

(a) a charge transport material having the formula



the formula is described in the specification and
where ~~n~~ is an integer between 2 and 6, inclusive;

10 ~~R₁ and R₂ are, independently, H, an alkyl group, an alkaryl group, a heterocyclic group, or an aryl group;~~

~~R₃ and R₄ are, independently, H, halogen, carboxyl, hydroxyl, thiol, cyano, nitro, aldehyde group, ketone group, an ether group, an ester group, a carbonyl group, an alkyl group, an alkaryl group, or an aryl group;~~

15 ~~X is a linking group having the formula -(CH₂)_m-, branched or linear, where m is an integer between 0 and 20, inclusive, and one or more of the methylene groups can be optionally replaced by O, S, C=O, O=S=O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, a NR₅ group, a CHR₆ group, or a CR₇R₈ group where R₅, R₆, R₇, and R₈ are, independently, H, an alkyl group, an alkaryl group, a heterocyclic group, or an aryl group, and~~

20 ~~Y is a bond, C, N, O, S, a branched or linear -(CH₂)_p- group where p is an integer between 0 and 10 and where one or more of the hydrogen atoms in the -(CH₂)_p- may be optionally removed to provide bond positions to enable n to have a higher value than 2, an aromatic group, a cycloalkyl group, a heterocyclic group, or a NR₉ group where R₉ is~~
25 ~~hydrogen atom, an alkyl group, or aryl group~~

~~Y comprises a bond, C, N, O, S, a branched or linear -(CH₂)_p- group where p is an integer between 0 and 10, an aromatic group, a cycloalkyl group, a heterocyclic group, or~~

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~~a NR₉ group where R₉ is hydrogen atom, an alkyl group, or aryl group, wherein Y has a structure selected to form n bonds with the corresponding X groups; and~~

(b) a charge generating compound.

~~Corresponding electrophotographic apparatuses and imaging methods are~~
~~5 described.~~

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